

NAS 64, UNS S32506 - Duplex Stainless Steel

Introduction :

Aesteiron continues to expand its product line in UNS S32506 to meet the emerging customer needs, and whereas Aesteiron Steels Pvt. Ltd. is ISO 9001 : 2008 Certified, ASPL has a great Projects in this grade in all parts of the world with renowned suppliers presenting the wide range of services. We pride ourselves in the quality of our products, our competitive pricing and our exceptional customer service. We have been recognized for our outstanding customer service in satisfaction surveys of top- ranked mills in india and all over the world. ASPL, with iron and steel as its main business, manufactures premium steel products with high technologies and a high added value and fosters three major product categories, namely carbon steel, stainless steel and special steel. Through our worldwide marketing network, these premium products not only satisfy the demand on the domestic market but are also exported to more than forty countries and regions in Asia, Africa, Europa and America, extensively applied to various. We are a highly qualified by our customers worldwide as a sustainable and trustworthy to meet their request and need at the right time and the right time and the right area. We strive and stand committed to maintain this respectable position by catering to the requirements of our customers in the best possible way leaving no room for complaints.

Products Available

in forms :

- NAS 64, UNS S32506 - Duplex Stainless Steel Plates
- NAS 64, UNS S32506 - Duplex Stainless Steel Pipes
- NAS 64, UNS S32506 - Duplex Stainless Steel Round Bar
- NAS 64, UNS S32506 - Duplex Stainless Steel Tube
- NAS 64, UNS S32506 - Duplex Stainless Steel Flanges
- NAS 64, UNS S32506 - Duplex Stainless Steel Wire
- NAS 64, UNS S32506 - Duplex Stainless Steel Fittings

Chemical Composition

	NAS 64	UNS S32506
Carbon	0.03max	0.03max
Manganese	1.00max	1.00max
Phosphorus	0.040max	0.040max
Sulfur	0.015max	0.015max
Silicon	0.9max	0.9max
Chromium	24.0-26.0	24.0-26.0
Nickel	5.5-7.2	5.5-7.2
Molybdenum	3-3.5	3-3.5
Nitrogen	0.08-0.20	0.08-0.20
Others	W 0.05-0.30	W 0.05-0.30

Standard Available

in forms :

- ASTM A240 / ASME SA240

Mechanical Properties

	NAS 64	UNS S32506
Ultimate Tensile Strength, ksi	90 min	90 min
0.2% Offset Yield Strength, ksi	65 min	65 min
Elongation in 2 inches, %	18 min	18 min
Reduction in Area, %	-	-
Hardness, Rockwell B	32 max	32 max

Corrosion Resistance

- NAS 64 has excellent local corrosion resistance, including pitting corrosion and stress corrosion cracking resistance, and can be used in environments which Type 316L cannot withstand.
- In comparison with Type 329J1, its pitting corrosion resistance is more than double, and in particular, its crevice corrosion resistance is far superior.

Workability

- High temperature strength is similar to Type 430 in the range of 1150~950°C.
- However the steel shows rapid increase in the strength below 900°C.
- Regarding cold workability, care is required as proof stress is high and elongation is low in comparison with Type 304.

Weldability

- Various welding methods are applicable in the same manner as with the standard austenitic stainless steels, including shielded metal arc welding, TIG welding, and plasma welding.
- Same duplex grade type welding consumable should be used.

Heat Treatment

- NAS 64 is not hardened by heat treatment.
- After heating to a solution treatment temperature of 1050~1080°C, quenching is necessary.
- Cooling must be performed as rapidly as possible so as to minimize the time when the material is exposed to the embrittlement temperature range.

Pickling

- A mixture of nitric acid and fluoric acid is used in pickling.
- However, because descaling is somewhat difficult in comparison with Type 304, alkali immersion before acid pickling, and if possible, shot blasting are extremely effective.

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Applications

- NAS 64 is suitable as material for a wide range of chemical equipment in environments which Type 316 cannot withstand, including various types of pollution prevention equipment and equipment handling petrochemicals, fibers, pulp, impure hot water, seawater, etc.
- Because it also possesses high strength, NAS 64 can be used in applications which require both mechanical strength and corrosion resistance, such as water gates, OCTG, geothermal power generation plants, etc.





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